

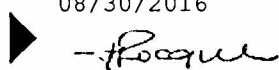
ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1

3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER 08/30/2016		2. CONTRACT NO. (If any) EP-W-14-001		6. SHIP TO: a. NAME OF CONSIGNEE RTPPOD				
3. ORDER NO. 0010		4. REQUISITION/REFERENCE NO. See Schedule						
5. ISSUING OFFICE (Address correspondence to) SRRPOD US Environmental Protection Agency Ariel Rios Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3805R Washington DC 20460				b. STREET ADDRESS US Environmental Protection Agency 109 T.W. Alexander Drive Mail Code: AA005				
7. TO: Frances Schossow				c. CITY Research Triangle Park		d. STATE NC	e. ZIP CODE 27709	
a. NAME OF CONTRACTOR ICF Incorporated, L.L.C.				f. SHIP VIA				
b. COMPANY NAME				8. TYPE OF ORDER				
c. STREET ADDRESS 9300 LEE HIGHWAY				<input type="checkbox"/> a. PURCHASE REFERENCE YOUR: Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.		<input checked="" type="checkbox"/> b. DELIVERY Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.		
d. CITY FAIRFAX		e. STATE VA	f. ZIP CODE 220311207					
9. ACCOUNTING AND APPROPRIATION DATA See Schedule				10. REQUISITIONING OFFICE OSRTI				
11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB							12. F.O.B. POINT Destination	
13. PLACE OF a. INSPECTION		b. ACCEPTANCE		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date)		
						16. DISCOUNT TERMS		
17. SCHEDULE (See reverse for Rejections)								
ITEM NO. (a)	SUPPLIES OR SERVICES (b)			QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	DUNS Number: 072648579 TOCOR: Carlos S Pachon Max Expire Date: 01/31/2018 Continued ...							
18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		\$0.00		17(h) TOTAL (Cont. pages)
21. MAIL INVOICE TO:								
a. NAME		RTP Finance Center						17(i) GRAND TOTAL
b. STREET ADDRESS (or P.O. Box)		US Environmental Protection Agency RTP-Finance Center Mail Drop D143-02 109 TW Alexander Drive						
c. CITY Durham		d. STATE NC	e. ZIP CODE 27711		\$249,241.00			
22. UNITED STATES OF AMERICA BY (Signature) 08/30/2016 				23. NAME (Typed) Eulvid Rocque TITLE: CONTRACTING/ORDERING OFFICER				

SCHEDULE - CONTINUATION

2

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER	CONTRACT NO.	ORDER NO.
08/30/2016	EP-W-14-001	0010

ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
0001	<p>Admin Office: SRRPOD US Environmental Protection Agency Ariel Rios Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3805R Washington DC 20460 Period of Performance: 08/30/2016 to 01/31/2018</p> <p>Title: Brownfields & Land Revitalization Technology Support Center (BTSC)</p> <p>The purpose of this action is to accept and incorporated by reference the contractor proposal dated August 18, 2016 for Contract number: EP-W-14-001 Task Order 0010 in the amount of \$249,241.00. This task order is also being incrementally funded in the amount of \$117,900 via requisition number: PR-OSWER-15-00483; \$25,000 via requisition number: PR-OLEM-16-00275; \$36,000 via requisition number: PR-OLEM-16-00270. The contract is not authorized to exceed the total approved cost ceiling of \$249,241.00 nor the funding ceiling of \$178,900.00 for this Task Order without the approval of the Contracting Officer.</p> <p>Requisition No: PR-OLEM-16-00270, PR-OLEM-16-00275, PR-OSWER-15-00483</p> <p>Accounting Info: 15-16-B-72BH-301D43-2505-1572BH5003-00 1 BFY: 15 EFY: 16 Fund: B Budget Org: 72BH Program (PRC): 301D43 Budget (BOC): 2505 DCN - Line ID: 1572BH5003-001 Funding Flag: Partial Funded: \$117,900.00 Accounting Info: 16-17-B-72BH-301D43-2505-1672BH5009-00 1 BFY: 16 EFY: 17 Fund: B Budget Org: 72BH Program (PRC): 301D43 Budget (BOC): 2505 DCN - Line ID: 1672BH5009-001 Continued ...</p>					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$0.00

SCHEDULE - CONTINUATION

3

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

DATE OF ORDER 08/30/2016	CONTRACT NO. EP-W-14-001	ORDER NO. 0010
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ITEM NO. (a)	SUPPLIES/SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	Funding Flag: Partial Funded: \$36,000.00 Accounting Info: 16-17-B-72BH-303D99-2505-1672BH5012-00 1 BFY: 16 EFY: 17 Fund: B Budget Org: 72BH Program (PRC): 303D99 Budget (BOC): 2505 DCN - Line ID: 1672BH5012-001 Funding Flag: Partial Funded: \$25,000.00					

TOTAL CARRIED FORWARD TO 1ST PAGE (ITEM 17(H))

\$0.00

**OSRTI Technical Assessment, Support, Outreach, and Training
EP-W-14-001 Task 10**

TITLE: Brownfields & Land Revitalization Technology Support Center (BTSC)
RFO Number: EP-W-14-001 Task 10

TASK ORDER STATEMENT OF WORK

I. BACKGROUND

OSWER is a USEPA office that implements programs articulated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, or Superfund) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986; the Resource Conservation and Recovery Act (RCRA) and amendments; and other legislation and Agency directives related to the characterization, remediation, and monitoring of solid and hazardous wastes. OSWER provides policy, guidance and direction for the Agency's emergency response and waste programs. It develops guidelines for the land disposal of hazardous waste and underground storage tanks. It provides technical assistance to all levels of government to establish safe practices in waste management and administers the Brownfields program, which supports state and local governments in redeveloping and reusing potentially contaminated sites. It also manages the Superfund program, which responds to abandoned and active hazardous waste sites and accidental oil and chemical releases. Finally, it encourages innovative technologies to address contaminated soil and groundwater.

The mission of OSRTI, a part of OSWER, is to return contaminated areas of land associated with Superfund sites to communities for safe reuse in a healthy environment. The purpose of the subject contract is to provide advice and support to the EPA's OSRTI in identifying state-of-the-practice technologies and approaches related to Superfund site cleanup, containment and removal, and facilitating site-specific technical support, related training courses and community outreach. This contract requires services in the following areas: Investigating public domain information sources to document technological innovations in remediation practices and evaluating technology use trends; Providing cutting-edge technical assistance to OSRTI personnel and supporting OSRTI efforts to assist EPA site managers and emergency responders, federal and state regulators, and Brownfields communities with technical issues regarding site characterization, remedial cleanup strategies, remedy design, and optimization approaches; Supporting symposia and meetings; Developing draft technical training materials and supporting OSRTI in conducting and delivering hands-on workshops for EPA and state cleanup professionals, others in cleanup professions, academia, and the general public; and Supporting EPA outreach.

As part of its mission to increase the use of innovative technologies in the Agency's waste programs, OSRTI is continuing to assist stakeholders involved in the characterization and remediation of Brownfields and other sites. The goal of this support is to advance the state of the practice in the voluntary site cleanup market, sharing the lessons learned in the Superfund program while also acquiring new knowledge from practitioners in Brownfield cleanups. High resolution site characterization and advancing greener remediation practices are examples of the initiatives being performed by OSRTI to increase the efficiency and cost effectiveness of site investigation and cleanup activities, and to minimize the environmental footprint of the work being done. The Brownfields & Land Revitalization Technology Support Center (BTSC www.brownfieldstsc.org) was established as one of the key operational vehicles to provide assistance in these areas and to ensure maximum tech transfer benefits from such support activities. The purpose of this Work Assignment Amendment is renew operations under the BTSC.

II. SCOPE OF WORK

The scope of this Task Order has four main areas: 1. provide site-specific technical support at sites as identified at brownfieldstsc.org under "Helping Decision-makers"; 2. to manage the content of the BFTSC website; 3. to develop tech transfer products for Brownfields audiences; 4. to assist with outreach, graphics and training for Brownfields audiences (including events such as Brownfields conferences).

III. PERIOD OF PERFORMANCE

The period of performance for the Base Period shall be date of award through January 31, 2018. The Government has the option to extend the effective period of this task order. Prior to the expiration of the effective task order period of performance, the Government, without prior written notification, may unilaterally exercise this option by issuing a contract modification.

IV. TASKS

Task 1: Providing Site Specific Technical Support (Contract Reference: Task 2: Providing cutting-edge technical assistance to OSRTI).

OSRTI provides support to local and state government personnel, EPA staff, tribes, and nonprofits with active EPA Brownfields Cleanup Grants. Several types of support are provided, mainly:

1. Planning support for innovative approaches and technologies at a site level
2. Technical reviews of project documents such as sampling and analysis plans (SAP), quality assurance project plans (QAPP), feasibility studies, engineering designs, or work plans.

3. Technical support for the implementation of innovative sampling, analytical, or treatment technologies and approaches, including:

- Improving conceptual site models
- Demonstration of Method Applicability related to innovative and more robust approaches to site characterization.
- Green remediation, including application of the ASTM Guide for Greener Cleanups and footprint quantification

The Contractor may have several levels of engagement on providing technical support to a site. At a minimum the Contractor shall document lessons learned from support provided directly by EPA staff. The Contractor may also coordinate requests from Clients received thru the BTSC Website, helping identify the nature of the tech support required and identifying the best source of expertise from the BTSC members (Argonne National Lab, the USACE, or EPA staff from OSRTI or any other office or Region). In more complex projects the Contractor may engage directly in providing technical support as specified by the EPA TOCOR.

For each technical support project, particularly those with site specific support activities, and in consultation with the EPA TOCOR, the Contractor shall complete an engagement form. Minor projects are expected to be resolved by email exchanges and a conference call. More complex support projects may include a site visit, back office analyses and report preparation, and possible debrief meeting to closeout. For these projects the Contractor shall develop an action plan with the foreseeable activities, major desired outcomes, and a clear exit strategy to include a final tech transfer and closure meeting. EPA anticipates 20 minor technical support efforts and 3 larger technical support projects.

EPA seeks to maximize the value obtained from the technical support provided to specific entities by linking it to effective tech transfer efforts and channels. The Contractor's role in such cases and thru this TO includes understanding the relationship between the project and OSRTI's overall objectives in advancing best practices in our nation's cleanup programs, recommending how the lessons learned thru a tech support project can be leveraged, and acting on these recommendations as directed by the EPA TOCOR.

TASK 1 DELIVERABLES	DUE DATE
Kickoff Conference Call	Per TOCOR direction.
Document Review	Per TCOR Direction

Site Meeting	Per TCOR Direction
First draft tech support review report	6 weeks after TOCOR kickoff meeting or site meeting if one occurred
Final optimization report	3 weeks after receipt of TOCOR comments

Task 2: Managing the BTSC Website Content
(Contract Reference: Performance Task 1 and 2).

Contractor shall manage the content of the BTSC site (www.brownfieldstsc.org) ensuring information is maintained current and relevant. EPA anticipates a need for an overhaul of the site, including streamlining existing content, particularly dated information and topic areas, and working in coordination with the Cluin.org team. Significant new content may be drawn for the work completed under Task 1. Contractor Tasks shall be limited to content maintenance, revision and development consistent with Cluin.org requirements. Contractor will not host the actual live site, which is supported for EPA through a separate contract.

TASK 2 DELIVERABLES	DUE DATE
2.1.1 BTSC content revamp plan	November 1 2016
2.1.2 Transfer of new content for posting	December 1 2016
2.2 Content update list	Monthly, provided to TOCOR mid-month for posting on first Monday of following month

Task 3: Developing Tech Transfer Products (Contract Reference: Performance Task 1, 2, 4).

The Contractor shall support EPA in the development of tech transfer products and publications, including those currently in draft mode from previous efforts. In producing these documents, mainly Issue Papers, Fact Sheets, Bulletins, and Primers, the Contractor shall ensure to be inclusive in assembling product development teams such that all relevant parties and possible contributors have an opportunity to participate. Contractor shall assume production of the following:

3.1 Bulletins/Primers/Fact Sheets:

- Technical bulletin (2)
 - TBD as directed by the WAM
- Topic-specific primers (2):
 - Updated Brownfields Roadmap

- Updated Brownfields Contracting Primer (Full draft already completed)
- Site specific tech-transfer fact sheets (2)
 - TBD as directed by the WAM

3.2 Update and delivery of Capacity Building training courses, including:

- Best Management Practices for Targeted Brownfields Assessment
- Best Management Practices for Brownfields Remediation

For cost estimating purposes, during the performance period, two Contractor representatives shall participate in 10 or more one-hour conference calls and participate in 2 face to face meetings with one contractor representative at each meeting in EPA headquarters or regional offices.

TASK 3 DELIVERABLES	DUE DATE
Technical Bulletin or Primer Draft	2 weeks after receipt of written technical direction
Technical Bulletin or Primer Final	2 weeks after receipt of comments by TOCOR
Capacity training materials – Draft course outline	1 month after kickoff meeting with TOCOR
Capacity training materials Final	3 weeks after receipt of comments by TOCOR

Task 4: Outreach and Graphics Support (Contract Reference: Performance Task 4).

The Contractor shall support the EPA TOCOR in its efforts to raise awareness about the technical support options available to the target populations thru the BTSC. Support may include participating in conferences, providing on-site support at conferences, developing outreach products and continuing the implementation of the BTSC outreach strategy initiated in 2007. Contractor shall include the following efforts in developing the work plan and cost estimate:

- Participation and support for in two TBD conferences, one in the DC metropolitan area and a second in Chicago, IL assuming three days of travel for Chicago.
- Providing miscellaneous follow-up support for the above-listed conferences.

TASK 4 DELIVERABLES	DUE DATE
Participation in conference	Per TD

V. POINT OF CONTACT

TOCOR: Carlos Pachon, 703-803-9904, pachon.carlos@epa.gov, Technology Integration and Information Branch, U.S. EPA, Office of Superfund Remediation and Technology Innovation, 1200 Pennsylvania Ave., NW (5203P), Washington, DC 20460

Alt TCOR: Jean Balent, - 703-603-9924, balent.jean@epa.gov, Technology Integration and Information Branch, U.S. EPA, Office of Superfund Remediation and Technology Innovation, 1200 Pennsylvania Ave., NW (5203P), Washington, DC 20460

VI. TERMS AND CONDITIONS

The following additional terms and conditions are requirements of this task order:

1. **Conflict of Interest Determination.** An assessment shall be performed for any site designated for optimization to determine whether the contractor has conducted prior work at the site, and the type of prior work performed. Then, considering the planned scope of the intended optimization event, determine whether the performance of the optimization event might constitute a conflict of interest as concerns the review of work already provided by the contractor to EPA, or others such as PRP's.
2. **Quality Assurance Project Plan** The Contractor shall prepare a Quality Assurance Project Plan (QAPP) for the accomplishment of this Task Order. In accordance with EPA's Quality System, the plan will also define and assign quality assurance (QA) and quality control (QC) responsibilities and describe the QA/QC processes and procedures to be implemented for all Tasks. A draft of Contractor's QAPP shall be submitted to and approved by EPA prior to commencing Tasks under this Task Order.
3. **Travel:** Local travel will be required for this Task Order. Contractors are required to follow Federal Travel Regulation (FTR) in affect at the time of the travel for local and CONUS travel, and are required to follow the Joint Travel Regulations (JTR) for in affect at the time of the travel for OCONUS travel. The contractors work plan must include a cost-estimate breakdown indicating number of trips, number of travelers, destinations to and from, purpose and cost (e.g., mileage, transportation costs, and subsistence rates).

ongoing Task throughout the period of performance. Following the review of the spreadsheet of initially identified sites/projects by the TOCOR, the Contractor should assume another 30 days to coordinate with the TOCOR to identify and select up to ten candidate sites/projects from which case studies may be developed from.

DELIVERABLE	DUE DATE
Initial spreadsheet of the full-scale remediation and demonstration sites and/or projects	Within 45 days after the date of award
Identification and selection of up to ten candidate sites/projects	Within 30 days after TOCOR review of initial spreadsheet
Update spreadsheet of the full-scale remediation and demonstration sites and/or projects	Ongoing through period of performance

TASK 2: PREPARE COST AND PERFORMANCE CASE STUDY REPORTS

Under Task 2, the Contractor will prepare up to three case study reports. The sites/projects to use as the basis of the case study reports will be chosen from the site/projects selected as candidates in Task 1. Each case study will be approximately 10-15 pages in length. The format of these reports should be similar to the recent cost and performance reports posted on the FRTR's Cost and Performance Case Studies webpage at <http://www.frtr.gov/costperf.htm>.

The case study reports will focus on the innovative approach and/or remediation technology used to treat the hazardous waste, adaptive/flexible use of innovative project management, and/or remedy implementation approaches. The case studies will highlight the use of innovative remedial technologies and/or the innovative combination of technologies, particularly which illustrate synergies between the remedial technology components of the remedy. An important aspect of the case studies should be lessons learned, both positive and negative. The lessons learned described in the case studies will assist OSRTI in the development, implementation and ongoing evaluation of repeatable, effective approaches for incorporating site specific technical information into OSRTI's technology assessment and technology transfer program.

Types of cost information that will be collected will include, but not limited to, additional site characterization costs incurred during remedial design/remedial action (RD/RA); costs associated with contractors; treatment technology vendor costs broken out at an appropriate level of detail; and monitoring and performance and compliance assessment costs, electrical utility costs, and other costs not borne by the vendor. The TOCOR will review and provide comments on reports and assist where possible in eliciting cooperation from federal and state agencies, oversight contractors, and technology vendors.

The Contractor shall provide support to accomplish this Task through the following:

- Participating in ongoing discussions with the TOCOR on how extensive and detailed a report is appropriate and the approximate level of effort for each of the candidate sites selected.
- Preparing two drafts and a final version of each report - the first draft for review by the TOCOR and up to three external reviewers, such as the EPA Remedial Project Manager (RPM) and technology vendor; a revised draft, incorporating comments from the TOCOR and external reviewers; and a final version of the report, incorporating final comments from the TOCOR.
- Providing final case study reports in PDF format, suitable for posting on the Internet.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 2	
2. AMENDMENT/MODIFICATION NO. 001		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO. PR-OLEM-17-00414	
5. PROJECT NO. (If applicable)		6. ISSUED BY SRRPOD		7. ADMINISTERED BY (If other than Item 6)	
SRRPOD US Environmental Protection Agency Ariel Rios Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3805R Washington DC 20460		8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) ICF Incorporated, L.L.C. Attn: Frances Schossow 9300 LEE HIGHWAY FAIRFAX VA 220311207		9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11)	
CODE 072648579		FACILITY CODE		10A. MODIFICATION OF CONTRACT/ORDER NO. EP-W-14-001 0010 10B. DATED (SEE ITEM 13) 08/30/2016	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☐ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required) Net Increase: \$70,341.00
See Schedule

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) LIMITATION OF GOVERNMENT'S OBLIGATIONS UNDER TASK ORDERS and ORDERING CLAUSE

E. IMPORTANT: Contractor ☒ is not. ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

DUNS Number: 072648579

TOCOR: Carlos S Pachon Max Expire Date: 01/31/2018

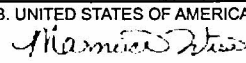
The purpose of this modification is to obligate funds in the amount of \$70,341.00 to this task order. This brings the total amount funded from \$178,900.00 by \$70,341.00 to \$249,241.00. This task order has now been funded to the ceiling amount of \$249,241.00. All other terms and conditions remain unchanged.

IST OF CHANGES:

Reason for Modification : Funding Only Action

Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Marneice Wise	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 07/17/2017

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

EP-W-14-001/0010/001

PAGE

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OF

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NAME OF OFFEROR OR CONTRACTOR

ICF Incorporated, L.L.C.

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Obligated Amount for this Modification: \$70,341.00 New Total Obligated Amount for this Award: \$249,241.00</p> <p>CHANGES FOR LINE ITEM NUMBER: 1 Obligated Amount for this modification: \$70,341.00 Incremental Funded Amount changed from \$178,900.00 to \$249,241.00</p> <p>NEW ACCOUNTING CODE ADDED: Account code: 17-18-B-72BH-301D43-2505-1772BH5005-001 DCN-LineID 1772BH5005-001 Amount: \$70,341.00 Period of Performance: 08/30/2016 to 01/31/2018</p>				

**OSRTI Technical Assessment, Support, Outreach, and Training
EP-W-14-001**

TITLE: Cost and Performance Case Study Reports
TO Number: 0003 Modification 1

TASK ORDER STATEMENT OF WORK

I. BACKGROUND

OSWER is an Agency component that is responsible for programs articulated under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, or Superfund) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) of 1986; the Resource Conservation and Recovery Act (RCRA) and amendments; and other legislation and Agency directives related to the characterization, remediation, and monitoring of solid and hazardous wastes. OSWER provides policy, guidance and direction for the Agency's emergency response and waste programs. It develops guidelines for the land disposal of hazardous waste and underground storage tanks. It provides technical assistance to all levels of government to establish safe practices in waste management and administers the Brownfields program, which supports state and local governments in redeveloping and reusing potentially contaminated sites. It also manages the Superfund program, which responds to abandoned and active hazardous waste sites and accidental oil and chemical releases. Finally, it encourages innovative technologies to address contaminated soil and groundwater.

The mission of OSRTI is to return contaminated areas of land associated with Superfund sites to communities for safe reuse in a healthy environment. The purpose of the subject contract is to provide advice and support to the EPA's OSRTI in identifying state-of-the-practice technologies and approaches related to Superfund site cleanup, containment and removal, and facilitating site-specific technical support, related training courses and community outreach. This contract requires services in the following areas: Investigating public domain information sources to document technological innovations in remediation practices and evaluating technology use trends; Providing cutting-edge technical assistance to OSRTI personnel and supporting OSRTI efforts to assist EPA site managers and emergency responders, federal and state regulators, and Brownfields communities with technical issues regarding site characterization, remedial cleanup strategies, remedy design, and optimization approaches; Supporting symposia and meetings; Developing draft technical training materials and supporting OSRTI in conducting and delivering hands-on workshops for EPA and state cleanup professionals, others in cleanup professions, academia, and the general public; and Supporting EPA outreach.

II. SCOPE OF WORK

The scope of this Task Order is being amended to add two case study reports under Task 2: Prepare Cost and Performance Case Study Reports. The selection of the sites/projects will follow the same procedure as described in Task 2. The format of these reports should be similar to the recent cost and performance reports posted on the FRTR's Cost and Performance Case Studies webpage at <http://www.frtr.gov/costperf.htm>. The deliverable timeline shall remain the same as described in Task 2.

The scope of this Task Order is to prepare cost and performance case study reports on applications of innovative hazardous waste remediation technologies. Improvements in the selection and use of more cost-effective remedies for hazardous waste cleanups requires better access to information on the performance and cost of remediation technologies. As a result, OSRTI is working to produce and

disseminate case studies on full scale remediation and demonstration projects to make this type of data more widely available. The case studies will be utilized in OSRTI's efforts to lead the development, implementation and ongoing evaluation of repeatable, effective approaches for incorporating site specific technical information into OSRTI's technology assessment and technology transfer program.

Work to be performed under this Task Order aligns with the following Performance Tasks of the contract Statement of Work:

- Performance Task 1: Investigating public domain information sources to document technological innovations in remediation practices and evaluating technology use trends.
- Performance Task 4: Developing draft technical training materials and supporting OSRTI in conducting and delivering hands-on workshops for EPA and state cleanup professionals, others in cleanup professions in the private sector, academia, and the general public, consistent with established EPA policy and guidance.
- Performance Task 5: Supporting EPA Outreach.

III. PERIOD OF PERFORMANCE

The period of performance for the amended Task Order shall be extended through September 09, 2016.

The Government has the option to extend the effective period of this task order. Prior to the expiration of the effective task order period of performance, the Government, without prior written notification, may unilaterally exercise this option by issuing a contract modification.

IV. TASKS

TASK 1: IDENTIFICATION OF CASE STUDY CANDIDATES

Under Task 1, the Contractor will identify full-scale remediation and demonstration sites and/or projects utilizing innovative technologies for treating hazardous waste and/or cleaning up contaminated soil, sediment, and groundwater. Such sites/projects may include Superfund, RCRA, LUST, and state clean-up sites as well as technology vendor demonstration projects. The Contractor will track the site/projects in a spreadsheet format and include information such as site name and location, technology type, and points of contact (POC). Sources of information to be considered in identifying and selecting sites/projects include the TIFSD's Technology News and Trends newsletter, TIFSD's TechDirect information service, recent technical conference proceedings, information from EPA staff, and information available from other federal agencies, states, and technology vendors. The spreadsheet will be submitted to the TOCOR for review.

From the identified sites/projects, the Contractor will coordinate with TOCOR to identify and select up to ten candidate sites/projects to develop case studies with recommendations and rationale for selecting these sites/projects. The candidate sites/projects will be selected based on the innovative approach and/or remediation technology used to treat the hazardous waste, adaptive/flexible use of innovative project management, and/or remedy implementation approaches. The selected candidate sites/projects should reflect the use of innovative technologies and/or the innovative combination of technologies, particularly which illustrate synergies between the remedial technology components of the remedy.

The Contractor should assume to submit the spreadsheet identifying the full-scale remediation and demonstration sites and/or projects within 45 days after the date of award. However, it should be understood that the identification of full-scale remediation sites and demonstration projects will be an

ongoing Task throughout the period of performance. Following the review of the spreadsheet of initially identified sites/projects by the TOCOR, the Contractor should assume another 30 days to coordinate with the TOCOR to identify and select up to ten candidate sites/projects from which case studies may be developed from.

DELIVERABLE	DUE DATE
Initial spreadsheet of the full-scale remediation and demonstration sites and/or projects	Within 45 days after the date of award
Identification and selection of up to ten candidate sites/projects	Within 30 days after TOCOR review of initial spreadsheet
Update spreadsheet of the full-scale remediation and demonstration sites and/or projects	Ongoing through period of performance

TASK 2: PREPARE COST AND PERFORMANCE CASE STUDY REPORTS

Under Task 2, the Contractor will prepare up to three case study reports. The sites/projects to use as the basis of the case study reports will be chosen from the site/projects selected as candidates in Task 1. Each case study will be approximately 10-15 pages in length. The format of these reports should be similar to the recent cost and performance reports posted on the ERTR's Cost and Performance Case Studies webpage at <http://www.etr.gov/costperf.htm>.

The case study reports will focus on the innovative approach and/or remediation technology used to treat the hazardous waste, adaptive/flexible use of innovative project management, and/or remedy implementation approaches. The case studies will highlight the use of innovative remedial technologies and/or the innovative combination of technologies, particularly which illustrate synergies between the remedial technology components of the remedy. An important aspect of the case studies should be lessons learned, both positive and negative. The lessons learned described in the case studies will assist OSRTI in the development, implementation and ongoing evaluation of repeatable, effective approaches for incorporating site specific technical information into OSRTI's technology assessment and technology transfer program.

Types of cost information that will be collected will include, but not limited to, additional site characterization costs incurred during remedial design/remedial action (RD/RA); costs associated with contractors; treatment technology vendor costs broken out at an appropriate level of detail; and monitoring and performance and compliance assessment costs, electrical utility costs, and other costs not borne by the vendor. The TOCOR will review and provide comments on reports and assist where possible in eliciting cooperation from federal and state agencies, oversight contractors, and technology vendors.

The Contractor shall provide support to accomplish this Task through the following:

- Participating in ongoing discussions with the TOCOR on how extensive and detailed a report is appropriate and the approximate level of effort for each of the candidate sites selected.
- Preparing two drafts and a final version of each report - the first draft for review by the TOCOR and up to three external reviewers, such as the EPA Remedial Project Manager (RPM) and technology vendor; a revised draft, incorporating comments from the TOCOR and external reviewers; and a final version of the report, incorporating final comments from the TOCOR.
- Providing final case study reports in PDF format, suitable for posting on the Internet.

DELIVERABLE	DUE DATE
Draft case study reports	Within 60 days after candidate site/project is chosen for a case study
Revised case study draft reports	Within 30 days after receipt of comments from reviewers.
Final case study reports	Within 15 days after receipt of final comments from TOCOR.

TASK 3: DEVELOP TECHNICAL TRAINING MATERIALS

On a case-by-case basis, the Contractor will be tasked to perform the following additional tasks. Preferably, these tasks will be determined at the point of initial site/technology selection for case study preparation; however, the need may not be apparent at the time of report initiation.

- Assist the TOCOR in preparation of presentation materials based on the final case study reports developed in Task 2 for technology transfer, webcasts, or other electronic or printed materials. These materials may include site and technology photographs, data tables, and narrative slides describing the site and site history and highlights of the remedial project.
- Develop a summary of lessons learned from the full-scale remediation and demonstration sites and/or projects identified in Task 1 and the case studies from Task 2 for use by OSRTI in training courses and for developing summary reports on innovative technology cost and performance.

The Contractor should assume for the need to prepare material to support two 15-20 minute presentations within the period of performance. It should be assumed that one document of 10-15 pages in length outlining lessons learned will be produced within the period of performance.

DELIVERABLE	DUE DATE
Presentation materials	Within the period of performance
Document outlining lessons learned	Within the period of performance

V. POINT OF CONTACT

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VI. TERMS AND CONDITIONS

The following additional terms and conditions are requirements of this task order:

Quality Assurance

This Task Order will involve the collection and use of existing data (secondary data). The Contractor will discuss the use of secondary data with the TOCOR to determine how the data will be used; identify secondary data sources; identify limitations associated with the data; and specify data reduction and evaluation procedures (e.g., conversions, re-classifications, formulas, units, definitions of terms, calculations, equations, and statistical analysis). Development of a secondary data QAPP will be considered and discussed with the TOCOR. However, a secondary data QAPP is not envisioned to be required.

The case study reports will document the approaches used to assure secondary data quality and will address elements outlined by EPA's Quality System guidance documents. The Contractor will evaluate the suitability of secondary data and address the following elements (as appropriate):

- Project objectives, organization, and responsibilities;
- Sources of secondary data and rationale for selecting these sources;
- Quality of secondary data and appropriateness for intended use (addressing accuracy, precision, representativeness, completeness, and comparability, if applicable) and referencing a related QAPP for this information, if available; and
- Data reporting, including data reduction procedures, data validation, and project documentation.